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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/072,353	02/07/2002	James H. Buchanan	5022.20-1	4267	
23559	7590 01/11/2006		EXAM	EXAMINER	
MUNSCH, HARDT, KOPF & HARR, P.C.			WILSON, R	WILSON, ROBERT W	
INTELLECTO 3800 LINCOI	UAL PROPERTY DOCKE LN PLAZA	T CLERK	ART UNIT	PAPER NUMBER	
500N AKARD STREET			2661		
DALLAS, T	K 75201		DATE MAILED: 01/11/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan	10/072,353	BUCHANAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Robert W. Wilson	2661				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	Idress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. hely filed the mailing date of this c D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 07 Fe	ehruary 2002					
· = · · _ · · · · · · · · · ·	action is non-final.					
· <u> </u>		secution as to the	e merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	,					
4) Claim(s) 1-27 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-22</u> is/are rejected.						
7)⊠ Claim(s) <u>23-27</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	•					
10) The drawing(s) filed on is/are: a) acce		Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti			FR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓΟ-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.					
<ol><li>Certified copies of the priority documents</li></ol>	s have been received in Application	on No				
<ol><li>Copies of the certified copies of the prior</li></ol>	ity documents have been receive	ed in this National	Stage			
application from the International Bureau	, ,,					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
·						
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary					
2)	Paper No(s)/Mail Da 5) Notice of Informal P		D-152)			
Paper No(s)/Mail Date <u>3/26/02 &amp; 10/21/02</u> .	6) Other:	,,	,			

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### Claim Objections

1. Claim 5-6 & 9-10 are objected to under 37 CFR 1.75 as being a substantial duplicate of claims. Claim 5 appears to be a duplicate of claim 6. Claim 9 appears to be a duplicate of claim 10. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

#### Claim Objections

2. Claims 23-27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 14, & 21-22 are rejected under 35 U.S.C. 102(B) as being anticipated by Iyer (U.S. Patent No.; 6,944,183).

Referring to claim 1, Iyer teaches: A method for assigning routing policy to a plurality of sites of a VPN per col. 4 line 1-col. 5 line 28 or per col. 1 lines 65-col. 2 line 52 or provisioning. The administrator graphically defines the relationship between the sides of the VPN per col. 4 line 1-col. 5 line 28. The administrator assigns the sites to policies one of which defines them as a part

of a RIPv1 or RIPv2 network or routing network. RIPv1 and RIPv2 inherently have at least one routing rule.

In addition Iyer teaches:

Regarding claim 14, policies are stored in the central database per Abstract or per col. 8 lines 65-67.

Referring to claim 21, Iyer teaches: A method for assigning routing policy to a plurality of sites of a VPN per col. 4 line 1-col. 5 line 28 or per col. 1 lines 65-col. 2 line 52 or provisioning. The administrator graphically displays at least one VPN component per Fig 7. Fig 7 enables dragging a representation of at least one site of a plurality of sites toward at least one VPN component. Fig 7 enables dropping of said representation of said at least one site on said representation of said at least one VPN component thereby causing said site to become a member of said VPN component

The administrator assigns the sites to policies one of which defines them as a part of a RIPv1 or RIPv2 network or routing network per col. 12 lines 20-38. RIPv1 and RIPv2 inherently have at least one routing rule.

In addition Iyer teaches:

Regarding claim 22, policies are stored in the central database per Abstract or per col. 8 lines 65-67.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 2-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iyer (U.S. Patent No.: 6,944,183) in view of Zaummen (U.S. Patent No.: 5,881,243)

Referring to claim 2, Iyer teaches: the method of claim 1, Iyer does not expressly call for: wherein generating at least one routing rule comprises: automatically generating at least one import rule, automatically generating at least one local export rule, and automatically generating at least one remote export rule but teaches that routing protocol RIP is assigned per col. 12 lines 20-38

Zaummen teaches: RIP sends import and export messages per col. 2 lines 1-23 and col. 9 lines 46-67. RIP inherently has rules regarding import and export of routes regardless of whether they are local or remote per col. 12 lines 20-38.

It would have been obvious to one of ordinary skill in the art at the time of the invention to add import and export messages of Zaummen to the RIP of Iyer in order to be standards compatible.

Referring to claim 3, Iyer teaches: the method of claim 1, Iyer does not expressly call for: wherein automatically generating at least one routing rule for each site comprises generating an import rule for discarding route information received from the respective site but teaches that routing protocol RIP is assigned per col. 12 lines 20-38

Zaummen teaches: RIP sends import and export messages per col. 2 lines 1-23 and col. 9 lines 46-67. RIP inherently has rules regarding import and export of routes and discarding routes regardless of whether they are local or remote per col. 12 lines 20-38 or wherein automatically

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generating at least one routing rule for each site comprises generating an import rule for discarding route information received from the respective site

It would have been obvious to one of ordinary skill in the art at the time of the invention to add import and export messages of Zaummen to the RIP of Iyer in order to be standards compatible.

Referring to claim 4, Iyer teaches: the method of claim 1, wherein automatically generating at each one routing rule that the site utilizes RIP comprises generating for a site of said plurality of sites, an RIP rule for accepting route information, in response to said site being a member of a mesh VPN component, receiving from any site of said plurality of sites which is a member of said VPN component per col. 12 lines 20-38. Iyer does not expressly call for: import rule Zaummen teaches: RIP sends import per col. 2 lines 1-23 and col. 9 lines 46-67. RIP inherently has rules regarding import of routes received from the respective site

It would have been obvious to one of ordinary skill in the art at the time of the invention to add import messages of Zaummen to the RIP of Iyer in order to be standards compatible.

Referring to claims 5 & 6, Iyer teaches: the method of claim 1, wherein automatically generating at each one routing rule that the site utilizes RIP comprises generating for a site of said plurality of sites, an RIP rule for accepting route information, in response to said site being a member of a mesh VPN component, receiving from any site of said plurality of sites which is a member of said VPN component regardless of whether the configuration is hub and spoke per col. 12 lines 20-38. Iyer does not expressly call for: import rule

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Zaummen teaches: RIP sends import per col. 2 lines 1-23 and col. 9 lines 46-67. RIP inherently has rules regarding import of routes received from the respective site

It would have been obvious to one of ordinary skill in the art at the time of the invention to add import messages of Zaummen to the RIP of Iyer in order to be standards compatible.

Referring to claim 7, Iyer teaches the method of claim 1, wherein automatically generating at least assigning one routing protocol or routing rule per col. 12 lines 20-38. Iyer does not expressly call for: export rule wherein the number of local export rules generate is at least equal to the number of VPN components of said VPN that the respective site is a member Zaummen teaches: RIP sends export messages per col. 2 lines 1-23 and col. 9 lines 46-67; therefore, assignment of RIP inherently assigns export rules. It would have been obvious to one of ordinary skill in the art at the time of the invention that there would be an export rule for each VPN respectively.

It would have been obvious to one of ordinary skill in the art at the time of the invention to add export messages of Zaummen to the RIP of Iyer in order to be standards compatible.

Referring to claim 8, Iyer teaches the method of claim 1, wherein automatically generating at least assigning one routing protocol or routing rule per col. 12 lines 20-38 and 102 per Fig 1 is one site and 104 per Fig 1 is a second site provider edge –customer edge routers share RIP information. They both accept and advertise or generate RIP routes associated with the VPN member devices regardless of whether they mesh.

Iyer does not expressly call for: local export rule

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Zaummen teaches: RIP sends export messages regardless whether the site is remote or local per col. 2 lines 1-23 and col. 9 lines 46-67; therefore, assignment of RIP inherently assigns local export rules. It would have been obvious to one of ordinary skill in the art at the time of the invention to add export messages of Zaummen to the RIP of Iyer in order to be standards compatible.

Referring to claims 9 & 10, Iyer teaches the method of claim 1, wherein automatically generating at least assigning one routing protocol or routing rule per col. 12 lines 20-38 and 102 per Fig 1 is one site and 104 per Fig 1 is a second site provider edge –customer edge routers share RIP information. They both accept and advertise or generate RIP routes associated with the VPN member devices regardless of whether they hub-spoke

Iyer does not expressly call for: local export rule

Zaummen teaches: RIP sends export messages regardless whether the site is remote or local per col. 2 lines 1-23 and col. 9 lines 46-67; therefore, assignment of RIP inherently assigns local export rules. It would have been obvious to one of ordinary skill in the art at the time of the invention to add export messages of Zaummen to the RIP of Iyer in order to be standards compatible.

Referring to claims 9 & 10, Iyer teaches the method of claim 1, wherein automatically generating at least assigning one routing protocol or routing rule per col. 12 lines 20-38 and 102 per Fig 1 is one site and 104 per Fig 1 is a second site provider edge –customer edge routers share RIP information. They both accept and advertise or generate RIP routes associated with the VPN member devices regardless of whether they VPN component

Iyer does not expressly call for: local export rule

Zaummen teaches: RIP sends export messages regardless whether the site is remote or local per col. 2 lines 1-23 and col. 9 lines 46-67; therefore, assignment of RIP inherently assigns local export rules. It would have been obvious to one of ordinary skill in the art at the time of the invention to add export messages of Zaummen to the RIP of Iyer in order to be standards compatible.

7. Claims 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iyer (U.S. Patent No.: 6,944,183) in view of Rekhter (U.S. Patent No.: 6,339,595)

Referring to claim 12, Iyer teaches the method of claim 1, wherein automatically generating at least assigning one routing protocol or routing rule per col. 12 lines 20-38 and 102 per Fig 1 Iyer does not expressly call for: generating a remote export rule for not advertising routin information received form a site which is a member of a VPN component to a site which is not a member of said VPN

Rekhter teaches: router in a VPN may be assigned to advertise intra-VPN traffic and not to advertise intra- VPN traffic per col. 18 lines 59-67 or generating a remote export rule for not advertising routin information received form a site which is a member of a VPN component to a site which is not a member of said VPN

It would have been obvious to one of ordinary skill in the art at the time of the invention to add the rules of Rekhter to the method of Iyer in order to limit the traffic between VPNs.

Referring to claim 13, Iyer teaches the method of claim 1, wherein automatically generating at least assigning one routing protocol or routing rule per col. 12 lines 20-38 and 102 per Fig 1

Iyer does not expressly call for: routing rule for each site comprises a generating for a site of said plurality of sites in response to said site being a member of at least two VPN components, a

remote export rule for advertising route information received from a site which si a mber of a first VPN component of said at least two VPN components to at least one site which is not a member of said first VPN component.

Rekhter teaches: router in a VPN may be assigned to advertise intra-VPN traffic and not to advertise intra- VPN traffic per col. 18 lines 59-67 or routing rule for each site comprises a generating for a site of said plurality of sites in response to said site being a member of at least two VPN components, a remote export rule for advertising route information received from a site which si a mber of a first VPN component of said at least two VPN components to at least one site which is not a member of said first VPN component.

It would have been obvious to one of ordinary skill in the art at the time of the invention to add the rules of Rekhter to the method of Iyer in order to limit the traffic between VPNs.

8. Claim 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giniger (U.S. Patent No.: 6,751,729) in view of Arquie (U.S. Patent No.: 6,880,127)

Referring to claim 15, Giniger teaches a Manager management Server per Fig 7 or system for provisioning a routing policy to a plurality of sites of a virtual private network. Giniger does not expressly call for: a graphical user interface but teaches a Management server for configuring the network per Fig 7. Arquie teaches display graphically displaying two nodes in which are components of a network per Figs 1A-1E and per col. 1 lines 27-col. 2 lines 29 and per Col.2 line 49-col 3 line 67. The display area or customer area shows two sites which upon dragging the

cursor from one node to the other node and dropping defines a route between the two nodes which makes it a member of the network of VPN.

It would have been obvious to one of ordinary skill in the art the time of the invention to add the display unit of Arquie to the management server of Giniger in order to assign nodes to the network in an efficient manner.

rules of Rekhter to the method of Iyer in order to limit the traffic between VPNs.

9. Claims 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giniger (U.S. Patent No.: 6,751,729) in view of Arquie (U.S. Patent No.: 6,880,127) further in view of Iyer (U.S. Patent No.: 6,944,183)

Referring to claim 16, Gininger and Arquie teach: the system of claim 15. The combination of Gininger and Arquie do not expressly call for: further comprising means for automatically generating at least one routing rule for each site of said plurality of sites based at least in part on membership of said respective site.

Iyer teaches: further comprising means for automatically generating at least one routing rule for each site of said plurality of sites based at least in part on membership of said respective site per Abstract or per col. 12 lines 20-38.

It would have been obvious to one of ordinary skill in the art at the time of the invention to add assigning membership of Iyer to the system of Ginniger and Arquie in order to build a system which can assign a routing protocol on a VPN basis.

Referring to claim 17, Gininger, Arquie, and Iyer teach: the system of claim 16. The combination of Gininger, Arquie, & Iyer do not expressly call for: further comprising means for

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distributing said respective generating routing rule to a respective one of said plurality of sites of said VN component.

Iyer teaches: further comprising means for distributing said respective generating routing rule to a respective one of said plurality of sites of said VN component per Fig 8.

It would have been obvious to one of ordinary skill in the art at the time of the invention to add display of Iyer to the system of Ginniger, Arquie, and Iyer in order to build a system which is user friendly for an administrator.

Referring to claim 18, Gininger, Arquie, and Iyer teach: the system of claim 17. The combination of Gininger, Arquie, & Iyer do not expressly call for: further comprising means for processing by each site route information received from said plurality of sites based at least one said one routing rule generating for said respective site.

Iyer teaches: means for processing by each site route information received from said plurality of sites based at least one said one routing rule generating for said respective site per Fig 8.

It would have been obvious to one of ordinary skill in the art at the time of the invention to add display of Iyer to the system of Ginniger, Arquie, and Iyer in order to build a system which is user friendly for an administrator.

Referring to claim 19, Gininger, Arquie, and Iyer teach: the system of claim 18. The combination of Gininger, Arquie, & Iyer do not expressly call for: further comprising means for establishing routing relations between said plurality of sites based at least in part on said processed routing information.

Iyer teaches: means for further comprising means for establishing routing relations between said plurality of sites based at least in part on said processed routing information. per Fig 8.

It would have been obvious to one of ordinary skill in the art at the time of the invention to add display of Iyer to the system of Ginniger, Arquie, and Iyer in order to build a system which is user friendly for an administrator.

Referring to claim 20, Gininger, Arquie, and Iyer teach: the system of claim 15. The combination of Gininger, Arquie, & Iyer do not expressly call for: further comprising a database operable to store said at least one routing rule.

Iyer teaches: routing policies or rules are stored in the central database per Abstract or per col. 8 lines 65-67.

It would have been obvious to one of ordinary skill in the art at the time of the invention to add the routing data base of Iyer to the system of the Gininger, Arquie, and Iyer in order to store the system configuration values.

#### Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert W. Wilson whose telephone number is 571/272-3075. The examiner can normally be reached on M-F (8:00-4:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T. Nguyen can be reached on 571/272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert W Wilson

Robert W. W. Low

Examiner

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RWW 12/28/05